

Quick Guide - Prepare Mobile System for Operation

The mobile Voyager bulk fiber dispensing system must be properly and completely setup before it can be used on the job site.

These instructions outline the necessary steps to prepare the mobile Voyager bulk fiber dispensing system for operation. If technical assistance is necessary, some assistance is available by telephone consultation with FORTA Corporation Operations Department. For more in-depth assistance, on-site technical services are available through FORTA Corporation at a cost of the technician's travel, lodging, and time on site. Contact FORTA Corporation for details; see [page 9](#).



Important

Failure to follow the within instructions, and any other supplied instructions, may void any applicable warranty.

Before you start

1. Trailer location and discharge tubing

The trailer should be parked as close as possible to the point-of-use for the fibers. The maximum length of tubing that the system can handle between trailer and point-of-use is 50 ft (15.25 m). The shortest distance achievable is highly recommended.

2. Utilities and equipment needed for operation

The following utilities and equipment are needed to operate the Voyager:

- Electrical service: 480 Vac, 3 Ph Y, 60 Hz, 15 A
- Electrical cable: 12/4 SOOW (preferred) or 14/4 SOOW, length as needed
- Lock-out/tag-out equipment

If the wireless remote control option was purchased with your Voyager, you will also need the following:

- Electrical service: standard 110 Vac outlet, located where the controls will be used

3. Tools required

You will need the following tools to prepare the trailer:

- | | |
|--|--|
| <input type="checkbox"/> 3/4 in wrench (for load cell setup) | <input type="checkbox"/> Carpenter's level (to level system) |
| <input type="checkbox"/> 1-1/8 in wrench (for load cell setup) | <input type="checkbox"/> Crank for scissor jacks (supplied) |
| <input type="checkbox"/> Flat head screw driver (for electrical setup) | |

Physical setup

1. Level the trailer (initial leveling)

Use the level and the trailer's four scissor jacks to level the trailer in both front-to-back and side-to-side directions. There is one jack at each corner of the trailer. Put the level on the floor of the trailer and extend each jack as necessary using the supplied crank - be sure to check both front-to-back and side-to-side directions. All four jacks must be extended, but make sure that all tires remain in contact with the ground. The jacks are not designed nor intended to hold the entire weight of the trailer. Also make sure that the tongue of the trailer is fully supported.



2. Install discharge tube

Remove the discharge plug from the outside of the trailer by loosening its wing nut.



Note

Store the plug inside the trailer; it must be reinstalled to prepare the trailer for transportation.

Discharge plug



Insert a section of discharge tube through the hole and into the coupler on the inside of the trailer. Choose either a straight section or the 90° curved section, whichever best suits your specific layout requirements.



Secure the discharge tube to the coupler by tightening the coupler wing nut.



Connect additional lengths of tubing as necessary to reach the point-of-use for the fibers. For optimal performance of the dispensing system, follow the recommendations listed at right. A supply of tubing is provided with the system; additional quantities can be purchased.

Recommendations for discharge tubing:

- Maximum length of tubing between trailer and point-of-use is 50 ft. The shortest distance achievable is highly recommended.
- Keep tubing either vertical or horizontal - no gradual slopes.
- Any bends should be 90°.
- Clear, static-resistant, rigid tubing should be used; tubing from BUSADA Manufacturing Corp is highly recommended.
- Use 4 in diameter tubing.
- Each section of tubing should fit OVER the one it is connecting to.

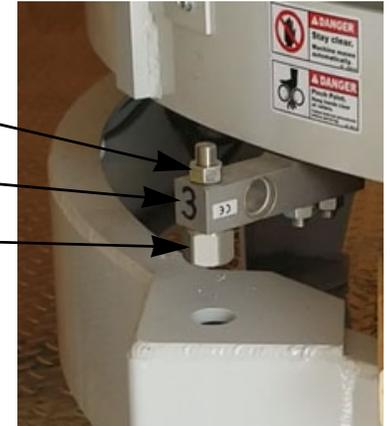
3. Remove ratchet straps

Loosen and remove the three ratchet straps from the Voyager feeder.



4. Prepare load cells

Identify the four load cells; there is a load cell at each of the four corners of the base (at the top of each leg).

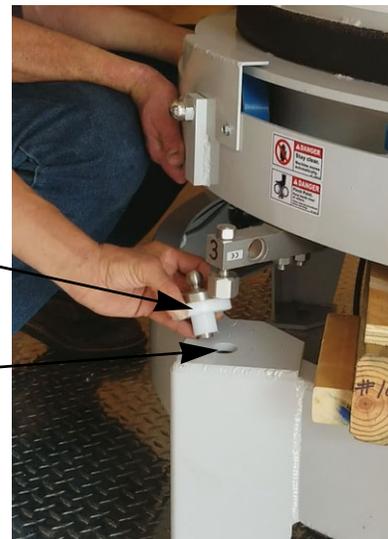


Lock nut
Load cell
Load cell adjuster

For each load cell, loosen its lock nut until it is approximately flush with the top of the threaded portion of the adjuster (see inset). Screw the adjuster approximately 1/2 to 3/4 of the way down - leave enough thread above the load cell for final adjustment at a later step.



While one person lifts a side of the base, the other person must insert a load cell pad into the hole at the top of each leg on that side of the base. Repeat this for the other side of the base so that all four load cell pads are installed.



Load cell pad with ball mount
Hole in top of leg

5. Remove blocks of wood

 **Important**

Two people are needed to perform this step.

Remove the two blocks of wood that support the base in a similar fashion as the previous step - as one person lifts a side of the base, the other person removes the block of wood that supports that side of the base. When the base is lowered, each load cell's adjuster must rest on the ball mount of its load cell pad (see inset).

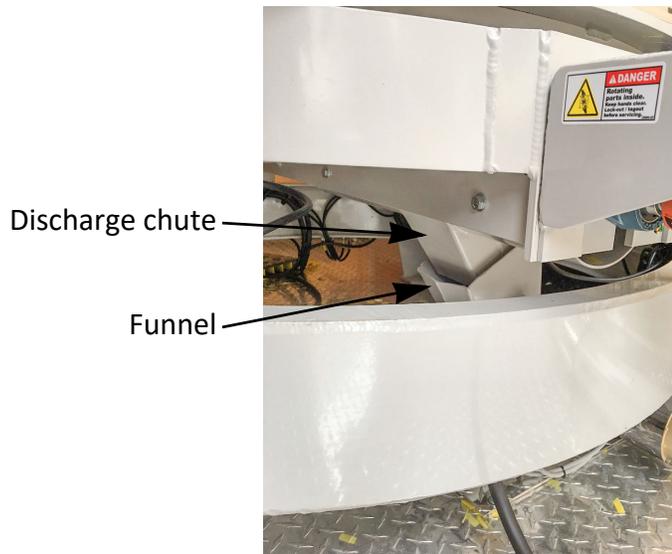


 **Important**

Do not discard the blocks of wood; they must be reinstalled to prepare the trailer for transportation.

Check each load cell to make sure that its adjuster is in firm contact with the ball mount of the load cell pad. Screw each adjuster down until you feel it become snug against the ball mount. Once all adjusters are set, tighten each locknut until it is snug against the top of the load cell.

Check that the discharge chute of the drum lines up with the funnel of the blower. There should be a finger-size air gap between the chute and funnel all the way around; DO NOT close off this gap, it is necessary for proper operation of the Voyager.

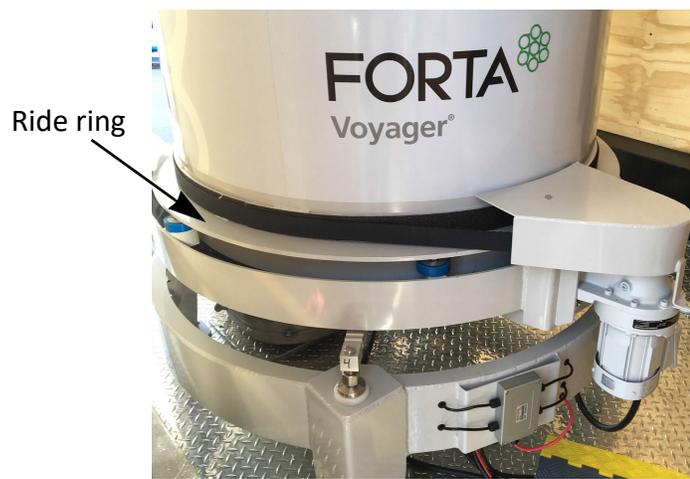


Discharge chute

Funnel

6. Confirm levelness of Voyager

Check the levelness of the Voyager in both front-to-back and side-to-side directions. **Put the level on the ride ring of the drum.** The Voyager should be level, if it is not check that all load cells are correctly seated on their load cell pads (see step 5). If everything is seated correctly and the Voyager is still not level, adjust the scissor jacks of the trailer to level the Voyager.



Electrical setup

 **WARNING!**

The electrical setup of the trailer must only be done by a certified electrician.

 **CAUTION!**

Electrical enclosures or panels should never be opened except for service. Keep all doors closed and locked at all other times. DO NOT use enclosures or panels for storage!

Electrical requirements are listed on [page 1](#).

1. Connect main power to trailer’s electrical disconnect enclosure

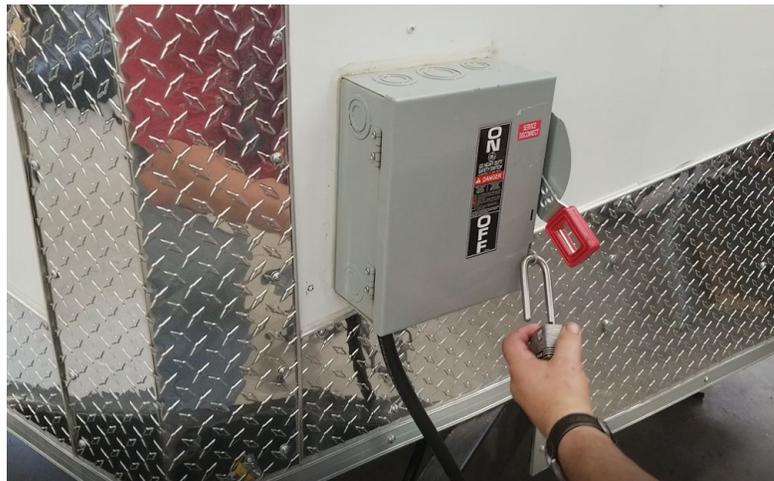
 **WARNING!**

Make sure the disconnect for the customer’s supply is turned OFF.

Make sure the disconnect for the electrical disconnect enclosure is turned OFF.

Use appropriate Lock-out/Tag-out procedures.

Open the electrical disconnect enclosure on the side of the trailer. The key for the padlock is typically located inside the trailer near the light switch.



Remove arc shield from the disconnect switch. Insert incoming power cable through hole in bottom of box. Connect cable to the disconnect switch and the ground. **Replace the arc shield. Close and lock the box.** Replace the key inside the trailer.

Turn ON the disconnect for incoming power at the customer's source. Turn ON the disconnect for electrical disconnect enclosure.



WARNING!

Never attempt to turn on power at the electrical disconnect enclosure if the door is open.



Arc shield



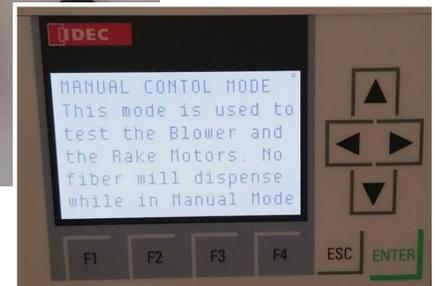
2. Check direction of rake motor



Note

Two people are needed to perform this step.

Ensure that the key is in the RUN/TEST key switch on the main control panel. Turn key to TEST position. Turn the disconnect switch to ON. (If necessary, a spare key is located inside the panel, see " Spare Key" on page 9.) Confirm that the display on the control panel indicates that the system is in Manual mode (see inset at right). Also, the **LOW FIBER** light might be on.



Note

This key is ONLY used during setup of the trailer. While in TEST mode, only the rake and blower motors can operate; no fibers can be dispensed.

While one person watches the end of the rake motor housing (through the fan guard), the other person momentarily presses the **RAKE** button on the control panel. As the motor slows to a stop, the direction of fan rotation should be evident. Confirm that the fan is rotating counterclockwise, as indicated by the arrow on the end of the motor housing. If the fan does not rotate counterclockwise, you must repeat step 1 on page 6 and reverse the legs (red and black) of the incoming power cable at the trailer's electrical disconnect enclosure. Once you have confirmed that the fan is rotating counterclockwise, turn the key to the **RUN** position.



3. Setup wireless remote control panel

Unpack the wireless remote control from its transport box. The transport box is located inside the trailer, typically secured to the front wall. It should not be necessary to unstrap or move the box. **Be sure to keep all padding.**

Put the remote control panel where it will be used - typically where the main process controls are located. Connect the control panel to a standard 110 Vac outlet using the provided power cord. The control panel does not have an on/off switch.



4. Ready for operation

The system is now ready for operation; refer to the separately supplied Voyager bulk fiber dispensing system's Operating Instructions.



Important

When fibers are put into an empty drum, the rake must be primed before operation; refer to the system's Operating Instructions.

Contact FORTA Corporation

If it is necessary to contact FORTA Corporation, you can do so by the following:

Mail: FORTA Corporation
 100 Forta Drive
 Grove City, PA 16127-5221

Phone: 1-800-245-0306 or 1-724-458-5221

Fax: 1-724-458-833

Web: www.fortacorp.com

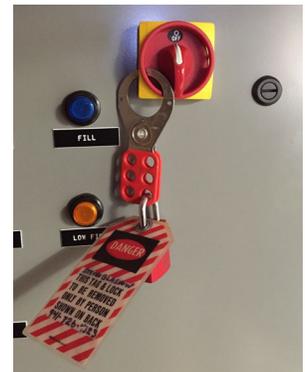
Spare Key

A spare key for the RUN/TEST switch is located inside the main control panel. If necessary to access this key, be sure to follow appropriate procedures:

Make sure that the disconnect switch on the main control panel is OFF. Lock-out the disconnect switch. Use screw driver to open the door of the main control panel.



Disconnect switch - main control panel



Remove the key that is taped to the inside bottom of the box.

Close the door and secure it closed with the screw driver.

Remove the lock-out from the disconnect switch.



Key